

conductive portion is located on an end surface of the small case body.

33  
cont  
SUB  
C2

8. (TWICE AMENDED) An attachment structure for attaching a motor to a battery, comprising:

a motor including a motor unit having first and second electrode terminals and a cylindrical case for covering and securing the motor unit,

wherein the cylindrical case includes a large case body having a cylindrical conductive portion which is directly electrically connected to the first electrode terminal, and a small case body directly connected to the second electrode terminal; and

a battery for driving the motor,

wherein the first and second electrode terminals of the motor, are each connected to corresponding electrodes of the battery through only conductive members, respectively.

9. (TWICE AMENDED) The attachment structure as claimed in claim 8, wherein the small case body further comprises a second conductive portion which is electrically separated from the cylindrical conductive portion and is connected to the second electrode terminal, and the second conductive portion is connected to a corresponding electrode of the battery through only a conductive member.

SUB  
C2

10. (TWICE AMENDED) An attachment structure for attaching a motor to a battery, comprising:

a motor including a motor unit having first and second electrode terminals and a cylindrical case for covering and securing the motor unit,

wherein the cylindrical case includes a large case body having a cylindrical conductive portion which is directly electrically connected to the first electrode terminal, and a small case body directly connected to the second electrode terminal; and

a battery for driving the motor,

wherein the second electrode terminal of the motor is connected to a first electrode of the battery through only a conductive member, and the large case body is connected to a second electrode of the battery directly.

11. (TWICE AMENDED) The attachment structure as claimed in claim 10, wherein the small case body further comprises a second conductive portion which is electrically separated from the first cylindrical conductive portion and is connected to the second electrode

terminal, and one of the first cylindrical conductive portion and the second conductive portion is connected to a corresponding electrode of the battery through only a conductive member, and the other of the cylindrical conductive portion and the second conductive portion is connected to a corresponding electrode of the battery directly.

12. (TWICE AMENDED) The attachment structure as claimed in claim 8, wherein the conductive members can be brought into contact with or away from the battery or the motor.

14. (ONCE AMENDED) The attachment structure as claimed in claim 8, wherein the battery is a button-type.

16. (ONCE AMENDED) The motor as claimed in claim 3, wherein the second conductive portion forms a cylindrical portion other than the cylindrical conductive portion of the large case body.

17. (ONCE AMENDED) The motor as claimed in claim 1, wherein the motor unit further comprises a commutator and contact springs, and the first and second electrode terminals of the motor are electrically connected to the commutator through the contact springs.

18. (ONCE AMENDED) The motor as claimed in claim 1, wherein the large case body and the small case body comprise recess portions for connecting the large and small case bodies.

19. (ONCE AMENDED) The attachment structure as claimed in claim 9, wherein the second conductive portion is located on an end surface of the small case body.

20. (ONCE AMENDED) The attachment structure as claimed in claim 9, wherein the second conductive portion forms a cylindrical portion other than the cylindrical conductive portion of the large case body.

21. (ONCE AMENDED) The attachment structure as claimed in claim 8, wherein the motor unit further comprises a commutator and contact springs, and the first and second electrode terminals of the motor are electrically connected to the commutator through the contact springs.

B3  
cont  
C2  
cont

22. (ONCE AMENDED) The attachment structure as claimed in claim 10, wherein the conductive members can be brought into contact with or away from the battery or the motor.

23. (ONCE AMENDED) The attachment structure as claimed in claim 10, wherein the battery is a button-type.

24. (ONCE AMENDED) The attachment structure as claimed in claim 11, wherein the second conductive portion is located on an end surface of the small case body.

sub  
C2

25. (ONCE AMENDED) The attachment structure as claimed in claim 10, wherein the large case body and the small case body comprise recess portions for connecting the large and small case bodies.

26. (ONCE AMENDED) A motor, comprising:  
a rotor;  
a cylindrical case for covering and securing the rotor, including a cylindrical conductive portion electrically connected to the rotor and directly connected to a first electrical terminal of the motor, and an end case electrically connected to the rotor and directly connected to a second electrical terminal.

The attached "VERSION" also shows the changes made to the above claims.

Please add the following new claims 27-38.

27. (NEW) The motor as claimed in claim 1, wherein the second electrode terminal passes through the small case body.

BT  
sub  
C2

28. (NEW) The motor as claimed in claim 27, wherein the motor unit further comprises a rotary shaft, a commutator and a contact spring; and  
the second electrode terminal passes through the small case body at a distance from the rotary shaft, and includes a first end which is electrically connected to the commutator through the contact spring, and a second end, which projects outwardly from the small case body.

C2  
Cant

29. (NEW) The motor as claimed in claim 28, wherein the second end is bent to form a curved contact head.

30. (NEW) The attachment structure as claimed in claim 8, wherein the second electrode terminal passes through the small case body.

31. (NEW) The attachment structure as claimed in claim 30,  
wherein the motor unit further comprises a rotary shaft, a commutator and a contact spring; and  
the second electrode terminal passes through the small case body at a distance from the rotary shaft, and includes a first end which is electrically connected to the commutator through the contact spring, and a second end which projects from the small case body.

32. (NEW) The attachment structure as claimed in claim 31, wherein the second end is bent to form a curved contact head.

33. (NEW) The attachment structure as claimed in claim 10, wherein the second electrode terminal passes through the small case body.

34. (NEW) The attachment structure as claimed in claim 33,  
wherein the motor unit further comprises a rotary shaft, a commutator and a contact spring; and  
the second electrode terminal passes through the small case body at a distance from the rotary shaft, and includes a first end which is electrically connected to the commutator through the contact spring, and a second end which projects outwardly from the small case body.

35. (NEW) The attachment structure as claimed in claim 34, wherein the second end is bent to form a curved contact head.

36. (NEW) The motor as claimed in claim 26, wherein the second electrode terminal passes through the end case.

37. (NEW) The motor as claimed in claim 36,  
wherein the rotor further comprises a rotary shaft, a commutator and a contact  
spring; and

the second electrode terminal passes through the end case at a distance from  
the rotary shaft, and includes a first end which is electrically connected to the commutator  
through the contact spring, and a second end terminal which projects outwardly from the end  
case.

38. (NEW) The motor as claimed in claim 37, wherein the second is bent to form a  
curved contact head.

### C. IN THE ABSTRACT

Please replace the current Abstract with the Abstract that is attached as a separate  
page hereto.

## II. REMARKS

### A. Introduction

In this Office Action, claims 1, 3, 6, 8-12, 14 and 16-26 are noted as pending and are  
rejected. In this Response, these claims have been amended, new dependent claims 27-38  
are added to afford a different scope of protection to which the applicant is entitled, and  
remarks are provided.

### B. Request for Withdrawal of Finality of Rejection

Applicants respectfully request the Examiner to withdraw the finality of the Office Action,  
if the above Amendments are not deemed to place the Application in condition for allowance.

The present rejection is a result of the Examiner's consideration of Applicants'  
Information Disclosure Statement, submitted January 28, 2002. As such, this action being  
made final was not the result of or necessitated by Applicant's amendments to the claims as  
stated in the Office Action, and Applicants have not had a prior chance to address the new prior  
art or the related rejection raised by the Examiner.